

**POLYMERIC STABILIZATION COMPOSITION AND METHOD****Abstract of the Disclosure**

Embodiments of the present invention are methods and chemical compositions of  
5 polymers and crosslinking agents that are particularly suited to aggregate, including soil and other  
natural aggregates, stabilization via hydraulic application. The present invention is an  
improvement over existing methods as it provides effective stabilization for longer periods. The  
compositions, when in an aqueous solution and applied to soil or aggregate surfaces, penetrate  
the surface polymerize and form a crosslinked polymer film. Individual aggregate particles may  
10 bind to the polymer or may be entrapped by the polymer film. In the environment, the film is  
substantially resistant, in the near term, to bio-degradation and natural, physical degradation due  
to weathering and exposure. The resultant polymer film and aggregate or bonded fiber matrix  
resists erosion by strong wind and heavy rain but readily allows seeds to germinate and grow.  
The crosslinked film is also substantially insoluble but nevertheless is biodegradable over the  
15 long term, ultimately decaying into harmless products. In addition a procedure for control of  
viscosity in the field application is described making possible cost savings by reducing the  
amount of required water for delivery.